



### UNIFIED, INTERACTIVE PRESENTATION

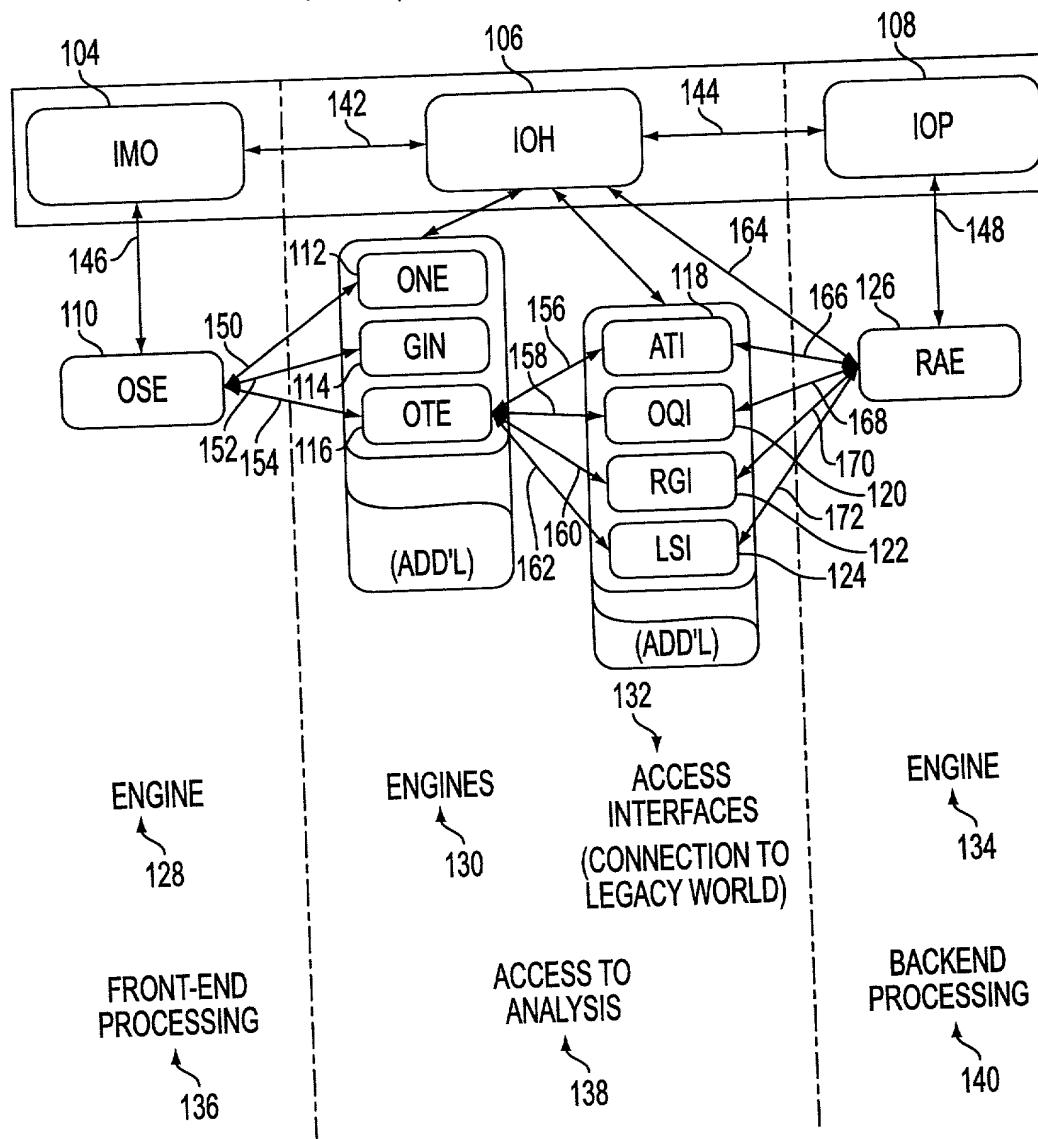


FIG. 1

THE PAPERS  
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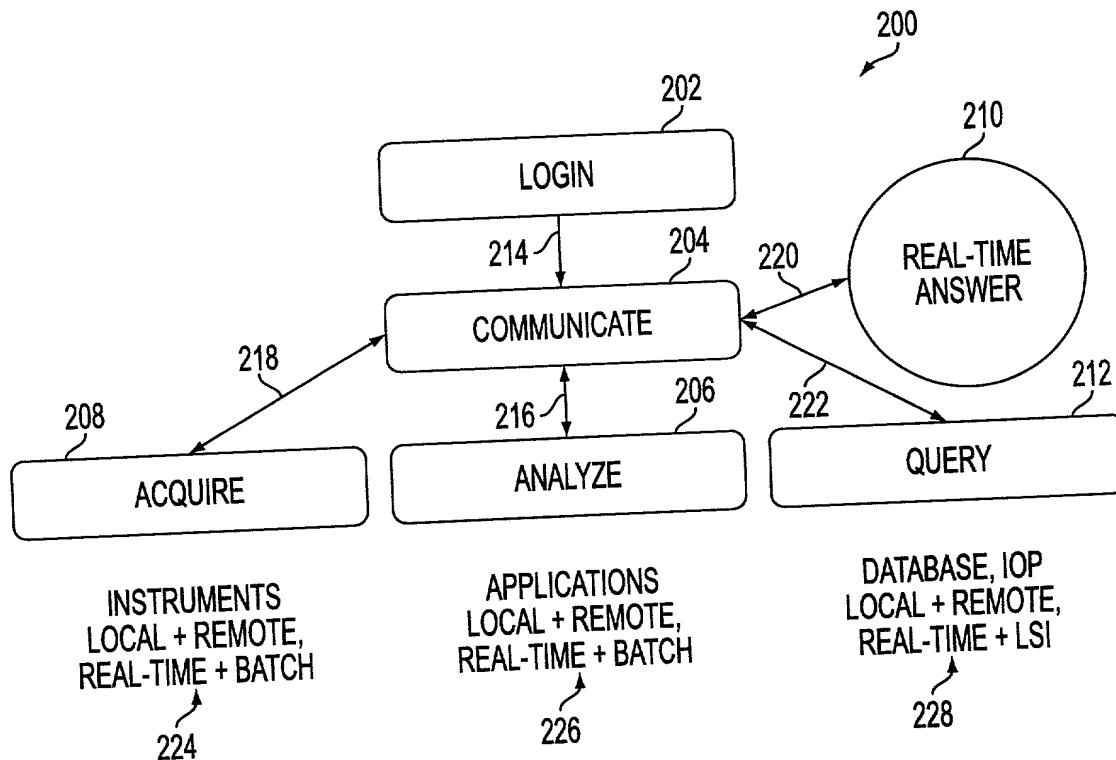
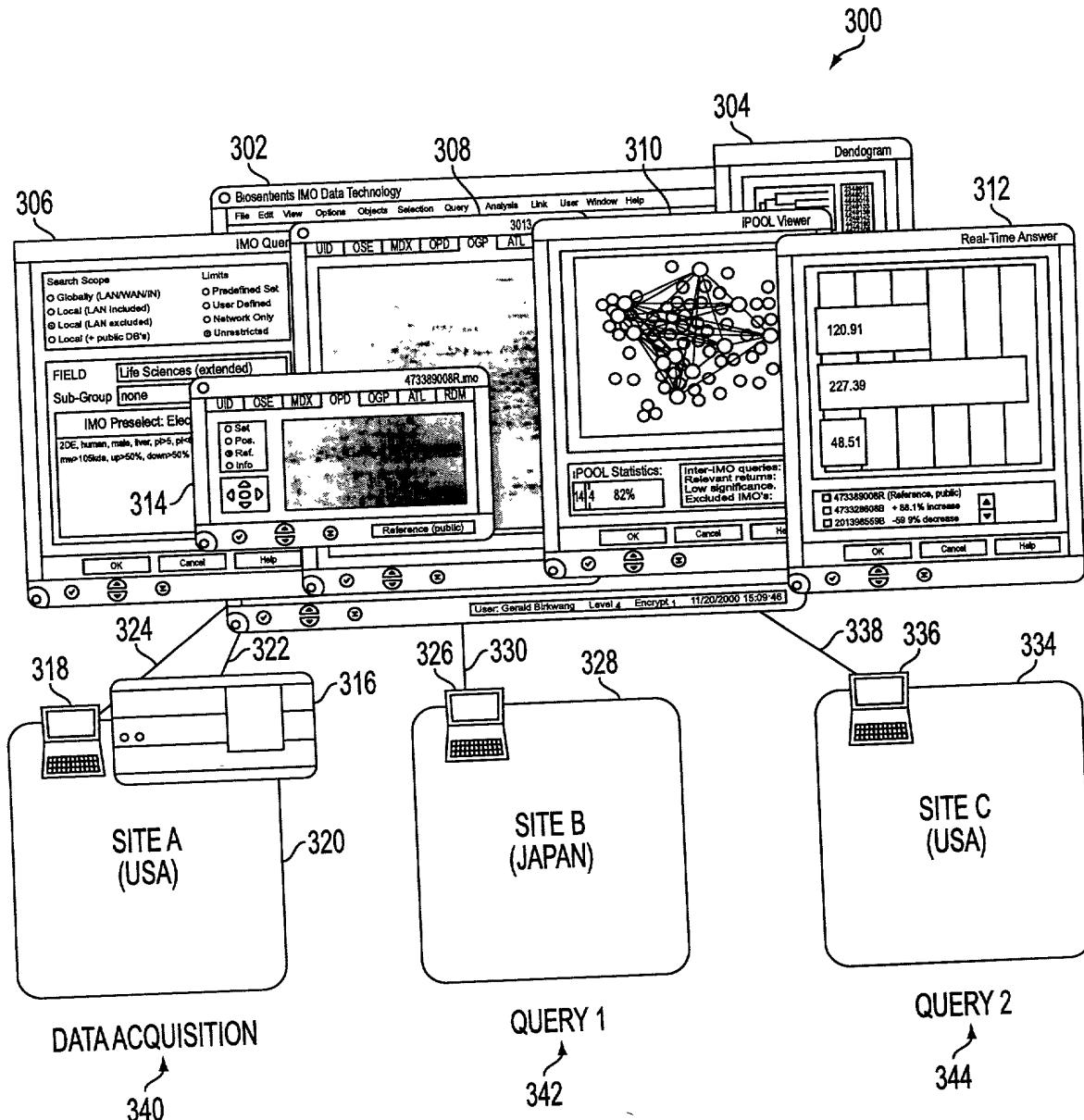
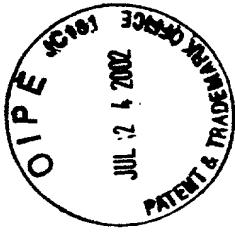
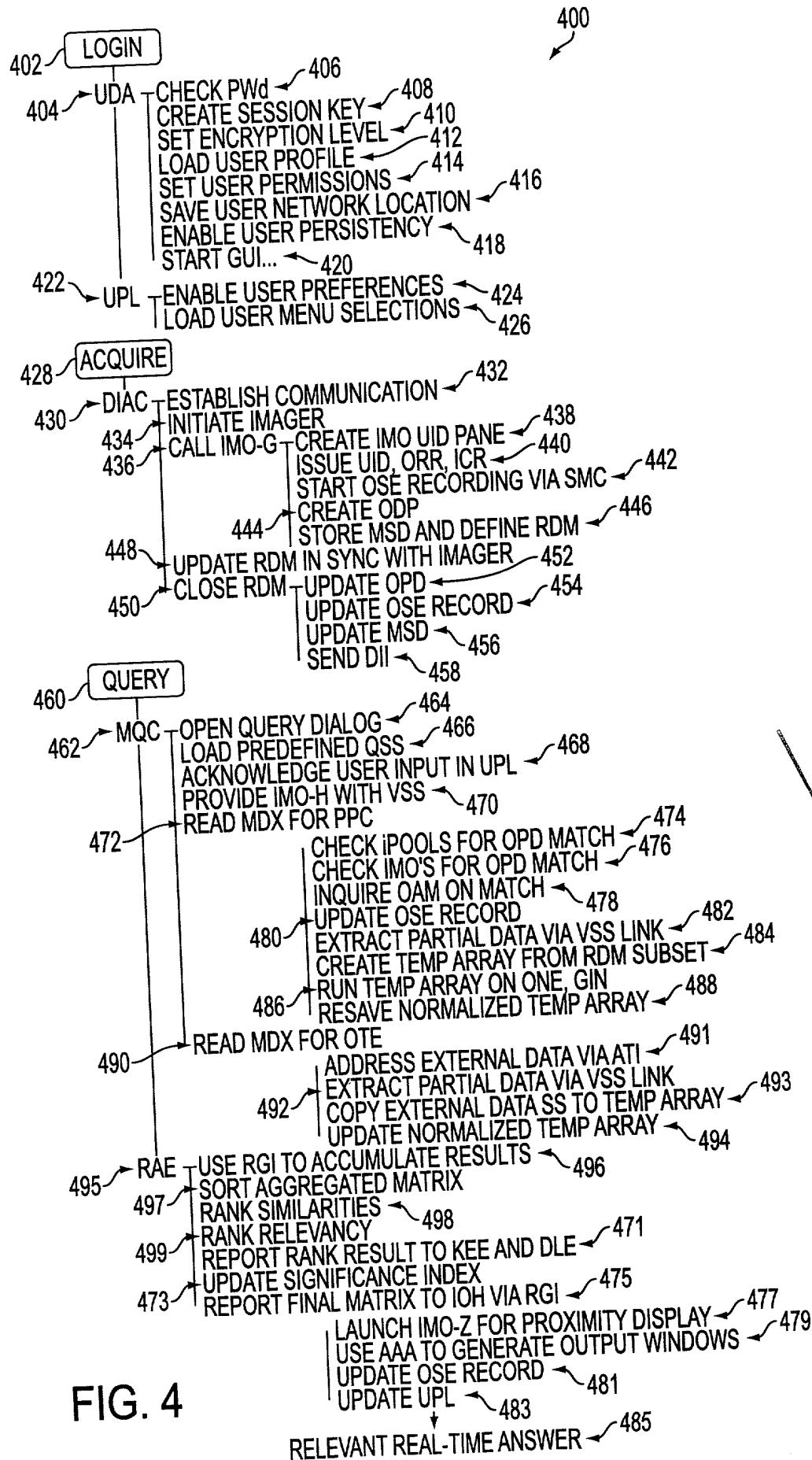
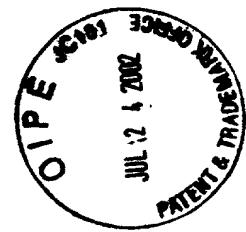


FIG. 2

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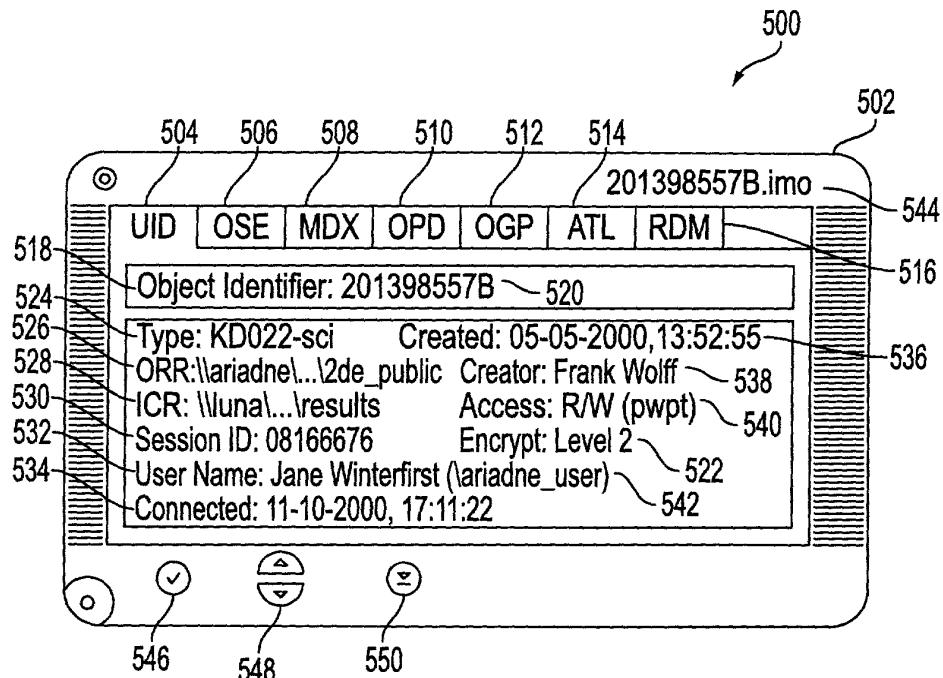
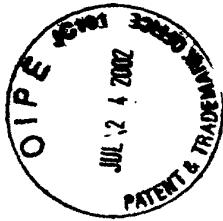


FIG. 5

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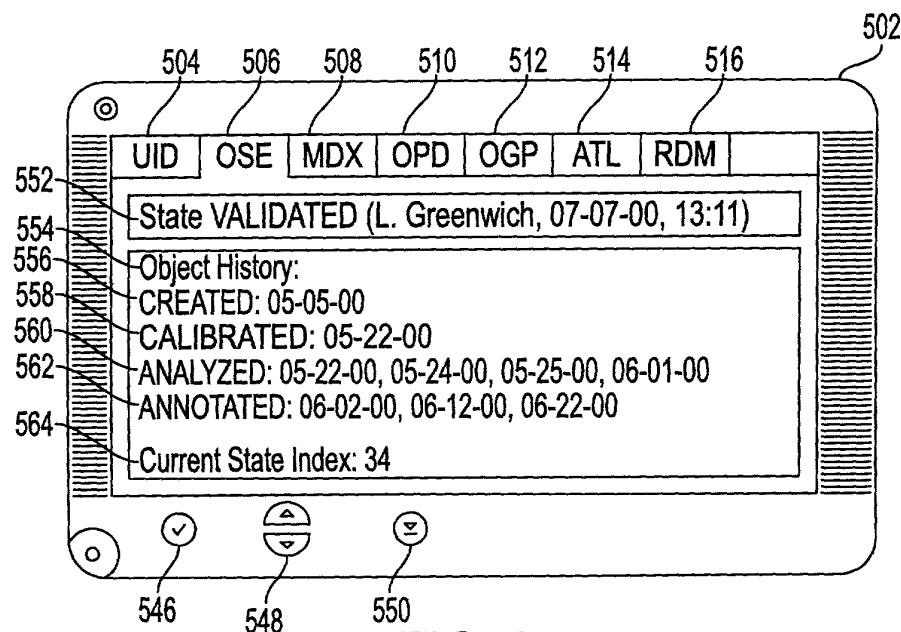


FIG. 6

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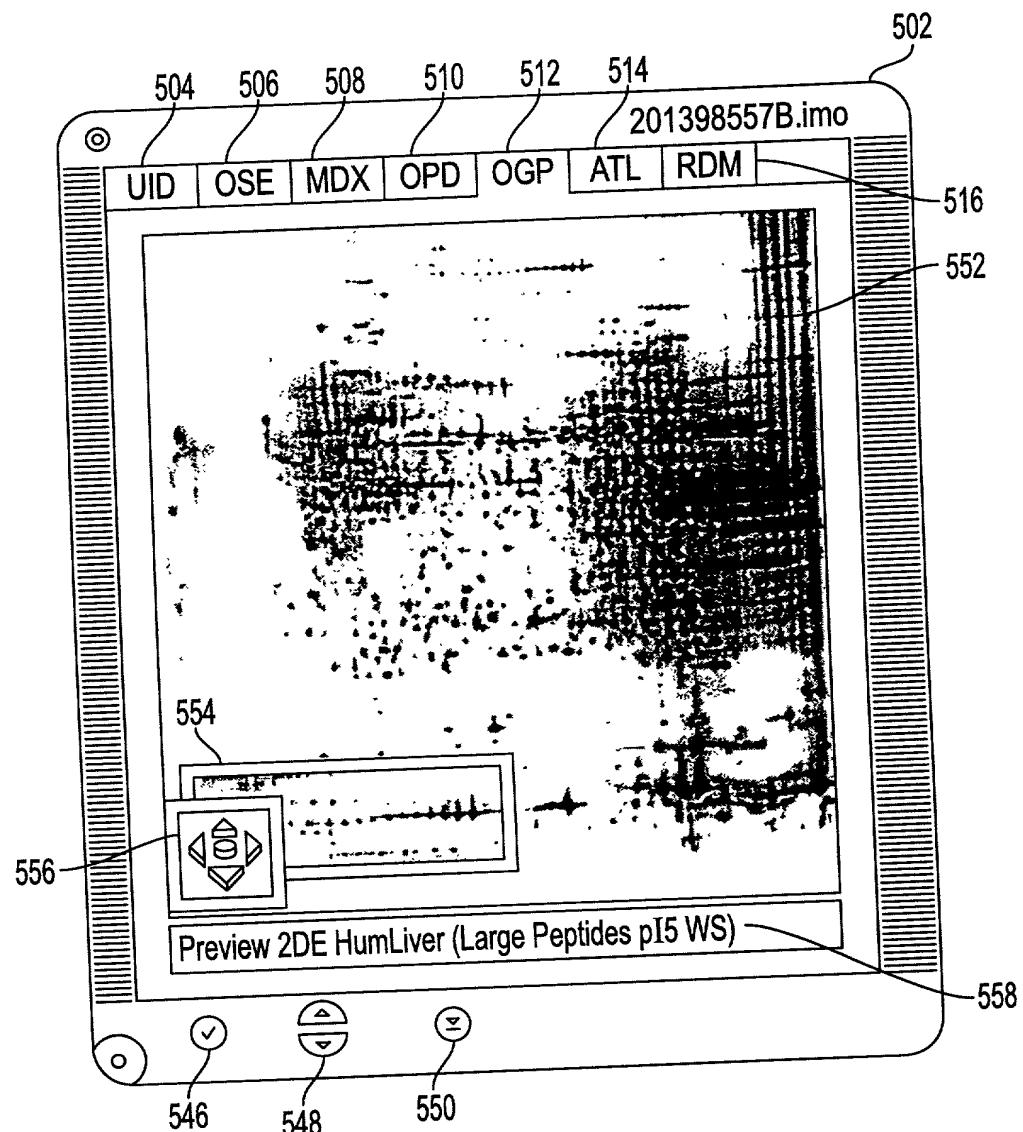
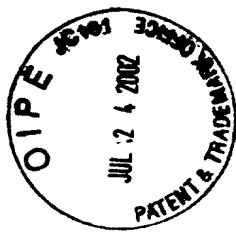


FIG. 7

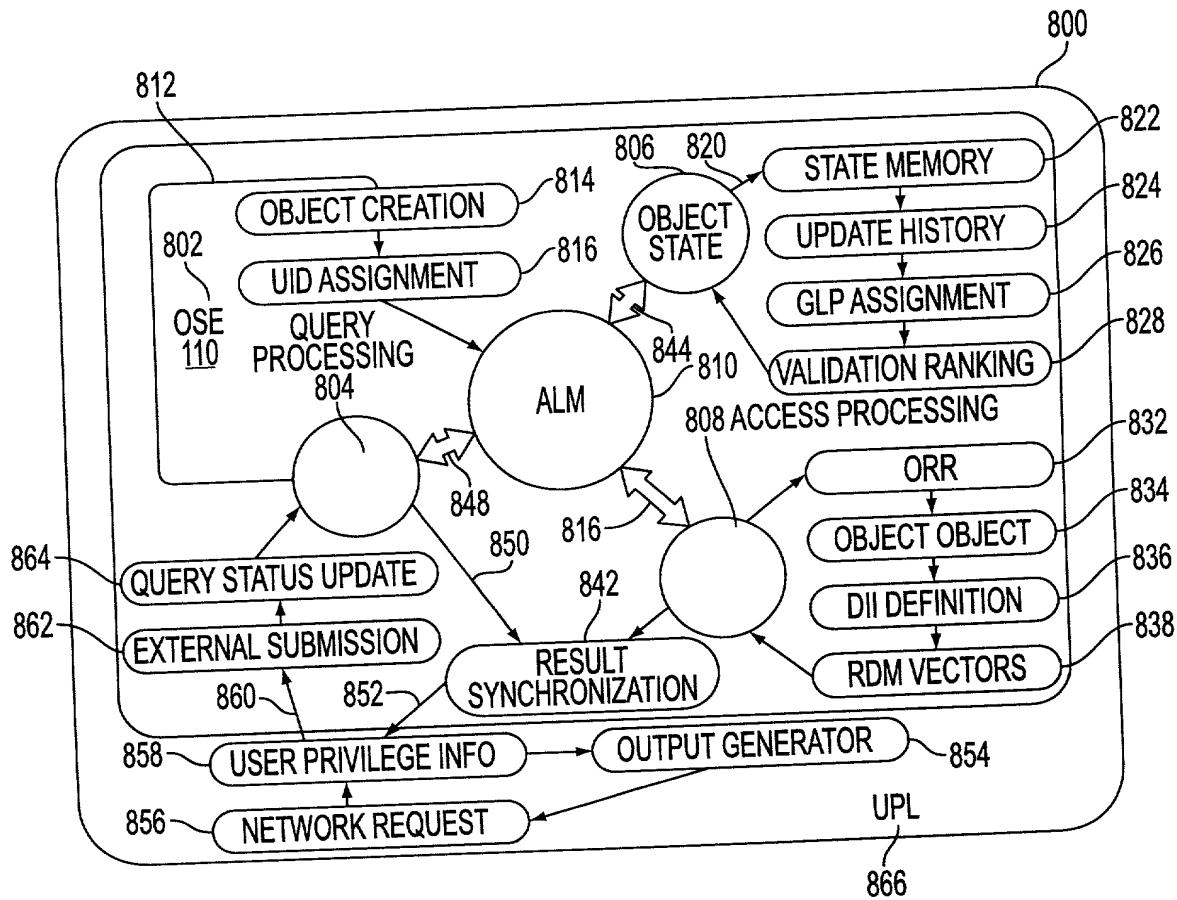
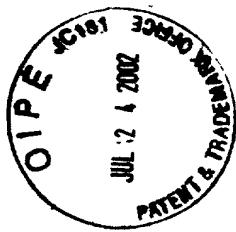
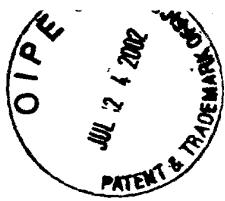


FIG. 8

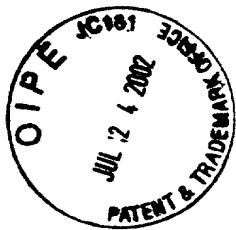


IMO OSE State Lookup Table → 900

000 Object created	073 Aminoacid designation (protein sequence)
010 Data acquisition	074 Molecule function
011 DA in progress	075 Molecular structure
012 DA interrupted	
013 DA continued	080 Functionality information
014 DA completed	081 Organism
020 Data type definition	082 Metabolic phase
021 DT raw	083 Disease relationship
022 DT matrix	100 Standardization/normalization
023 DT structure	101 STD threshold
024 DT vector	102 STD base function (e.g., baseline)
025 DT pointer	103 STD base plane (e.g., 3D space)
026 DT path	14x STD all 04x (Bio; e.g., 141 STD quantitation)
027 DT binary	15x STD all 05x (Image; e.g., 152 STD fluorescence intensity)
028 DT ASCII	
040 Bio-Calibrations	300 Experiment validation
041 C quantitation	301 Invalid conditions
042 C molecular weight	302 Invalid experiment
043 C isoelectric point	303 Invalid interpretation
044 C enzyme-activity	304 Invalid analysis tool applied
045 C immunological activity	310 Unsure result
046 C other bio-activity	311 Unsure conditions
050 Image-Calibrations	312 Unsure method
051 C optical density (OD)	320 Validated method
052 C fluorescence intensity	321 Validated analysis
053 C luminescence intensity	333 Validated experiment
054 C white balance	340 Forensic experiment
055 C light intensity	350 Certified experiment
056 C dynamic range verification	
060 Measurement-Calibrations	400 Output request
061 C origin	410 Numerical output generated
062 C size x	411 Graphical output generated
063 C size y	420 Remote output sent
064 C position x	430 Output printed
065 C position y	900 Access information
066 C position z	901 Access denied
067 C length	902 Time limit exceeded
068 C width	903 User limit exceeded
069 C depth	910 Inter-object communication granted
070 Annotations	911 User access to object granted
071 Descriptive text	920 Full access to object granted
072 Base Designation (DNA sequence)	

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FIG. 9



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Object:

State	User/level	Network	Date/time stamp	(Explanation)
000	RAS/05	00220	12/20/2000 14:33:05	(object created)
011	WUD/02	00220	12/20/2000 14:33:07	(data: acquisition in progress)
014	WUD/02	00220	12/20/2000 16:53:07	(data: acquisition completed)
022	WUD/02	00220	12/20/2000 16:55:22	(data: matrix defined)
056	GOT/03	00220	12/21/2000 08:00:57	(image: dynam. range verified)
052	GOT/03	00220	12/21/2000 08:01:46	(image: fluoresc. intens. calib.)
041	GOT/03	00220	12/21/2000 08:16:31	(bio: quantitation calib.)
061	GOT/03	00220	12/21/2000 08:18:58	(image: origin calib.)
062	GOT/03	00220	12/21/2000 08:20:25	(image: size x calib.)
063	GOT/03	00220	12/21/2000 08:23:19	(image: size y calib.)
101	GOT/03	00220	12/21/2000 08:25:44	(std/norm: detection threshold)
164	GOT/03	00220	12/21/2000 08:41:12	(std/norm: measurement x)
165	GOT/03	00220	12/21/2000 08:45:30	(std/norm: measurement y)
901	KRE/05	00080	12/21/2000 08:45:31	(access denied)
911	AAH/02	04092	12/21/2000 08:45:44	(user: access to object granted)
071	AAH/02	04092	12/21/2000 08:45:50	(anno: descript. text)
024	GOT/03	00220	12/21/2000 08:52:12	(data: vector defined)
911	BLD/03	00693	12/21/2000 09:02:36	(user: access to object granted)
073	BLD/03	00693	12/21/2000 09:02:39	(anno: AA protein sequence)
045	GOT/03	00220	12/21/2000 09:14:08	(bio: immunol. activity)
046	GOT/03	00220	12/21/2000 09:39:41	(bio: other bio-activity)
410	GOT/03	00220	12/21/2000 09:42:31	(output: numerical output)
411	GOT/03	00220	12/21/2000 09:44:07	(output: graphical output)
430	GOT/03	00220	12/21/2000 09:42:31	(output: printed)
....				

FIG. 10

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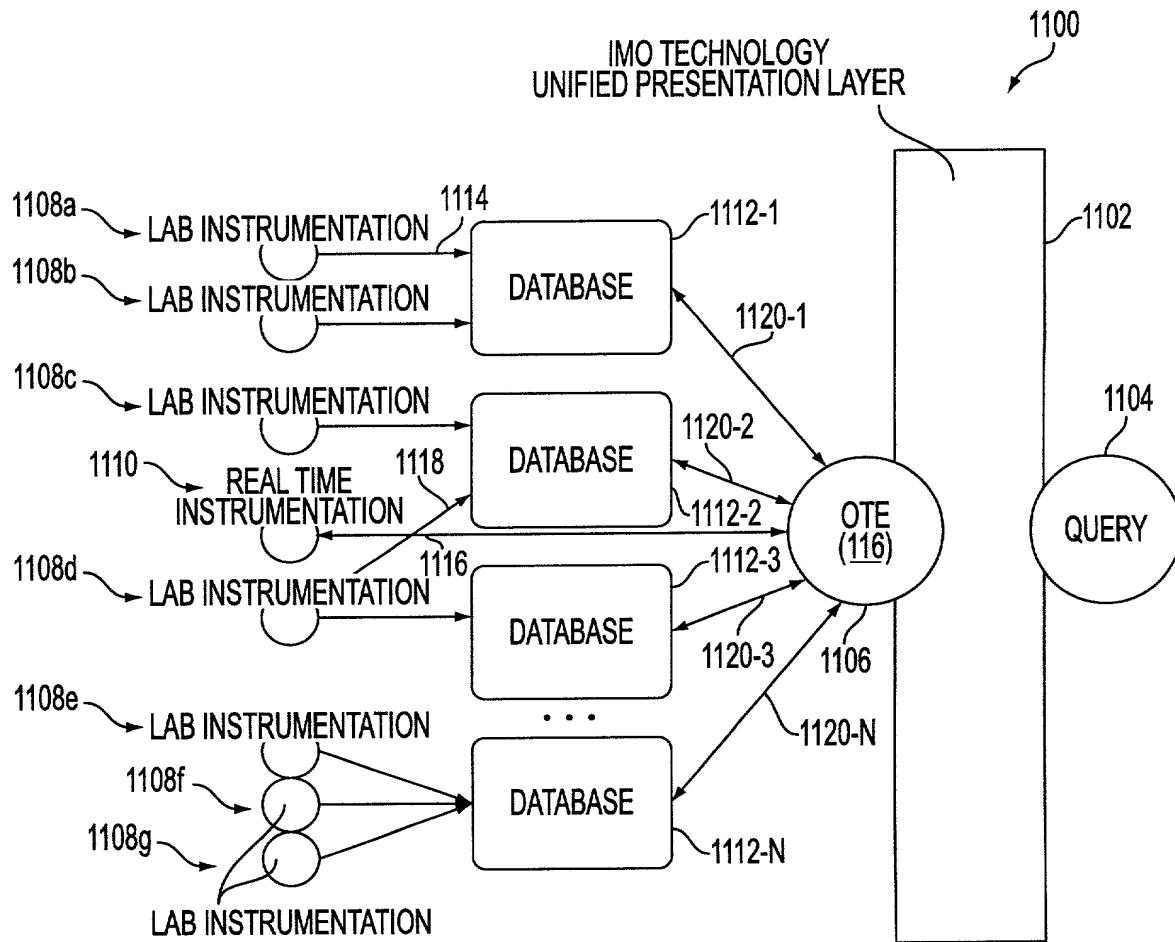


FIG. 11

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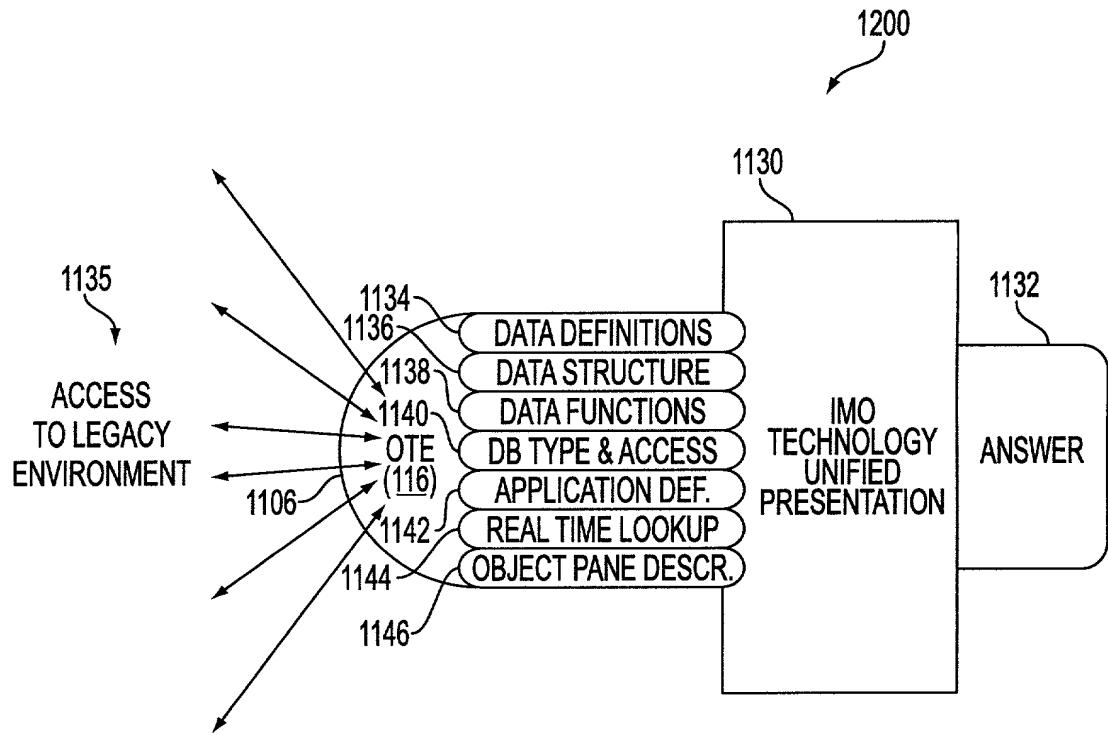
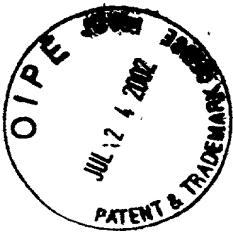


FIG. 12

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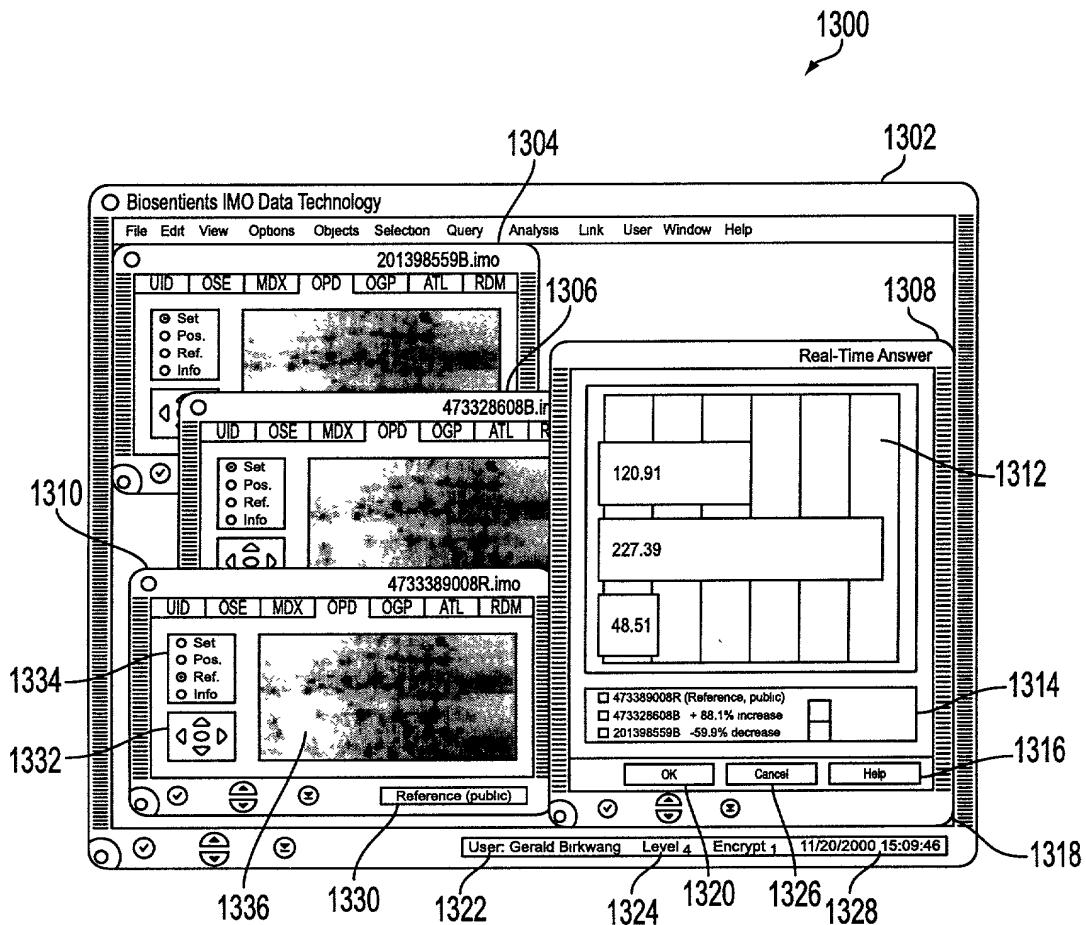
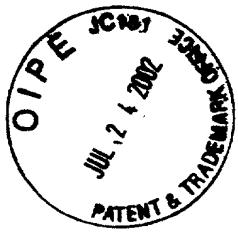


FIG. 13

JULY OF PAPERS  
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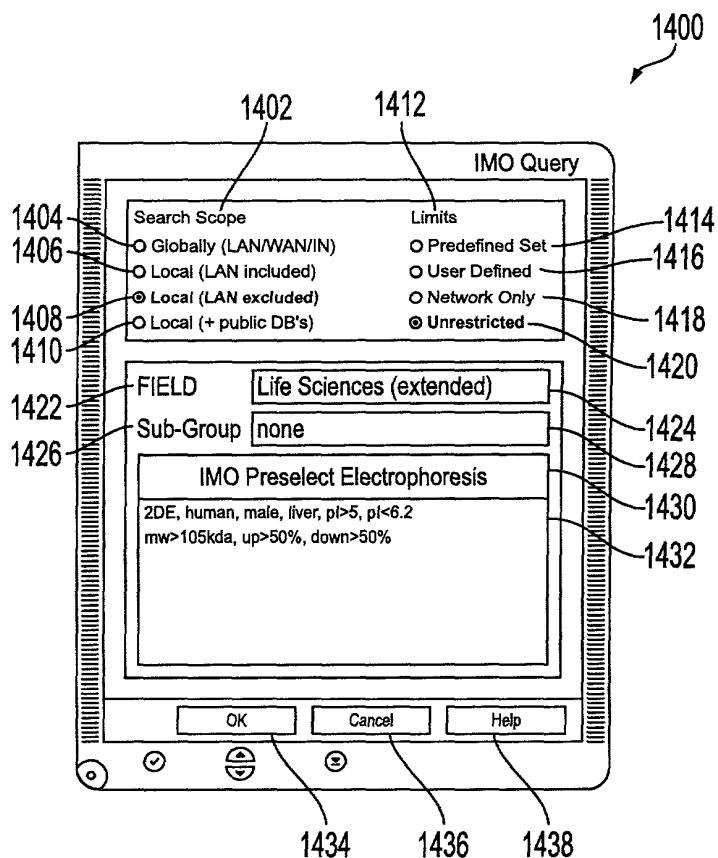
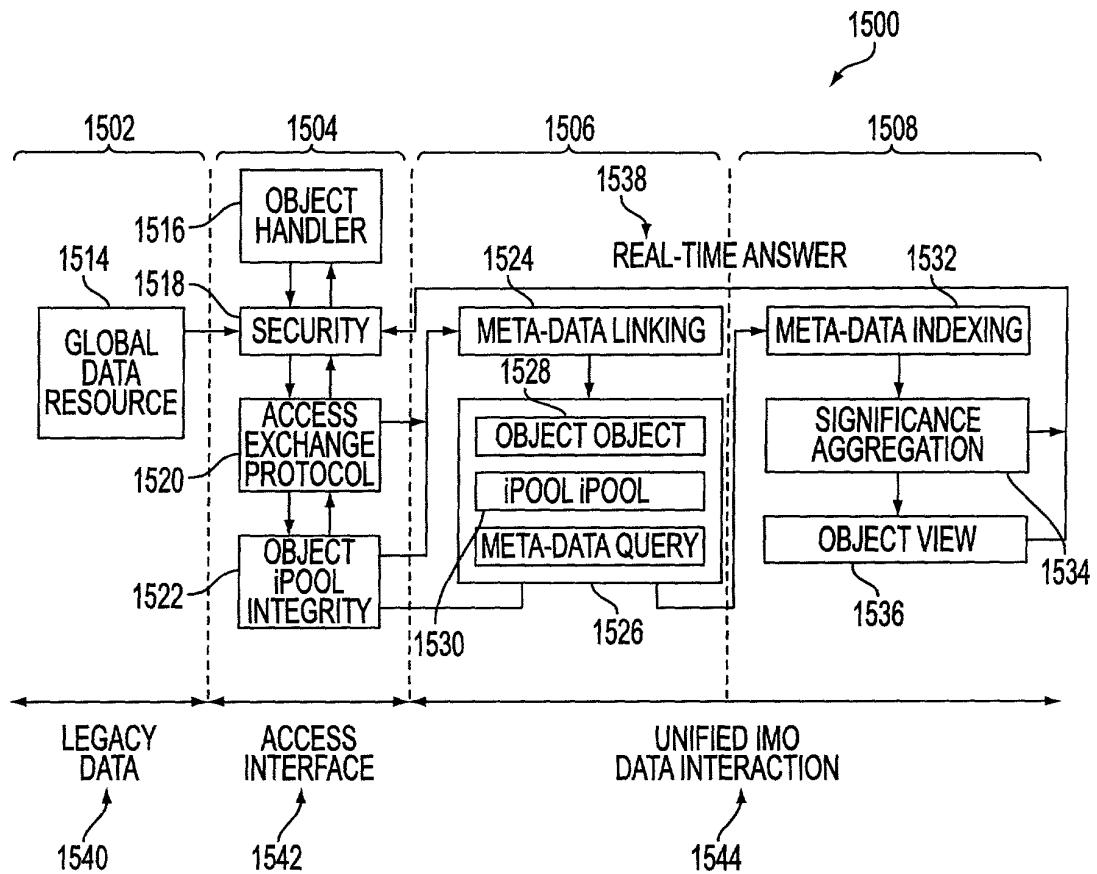


FIG. 14

JULY OF PAPERS  
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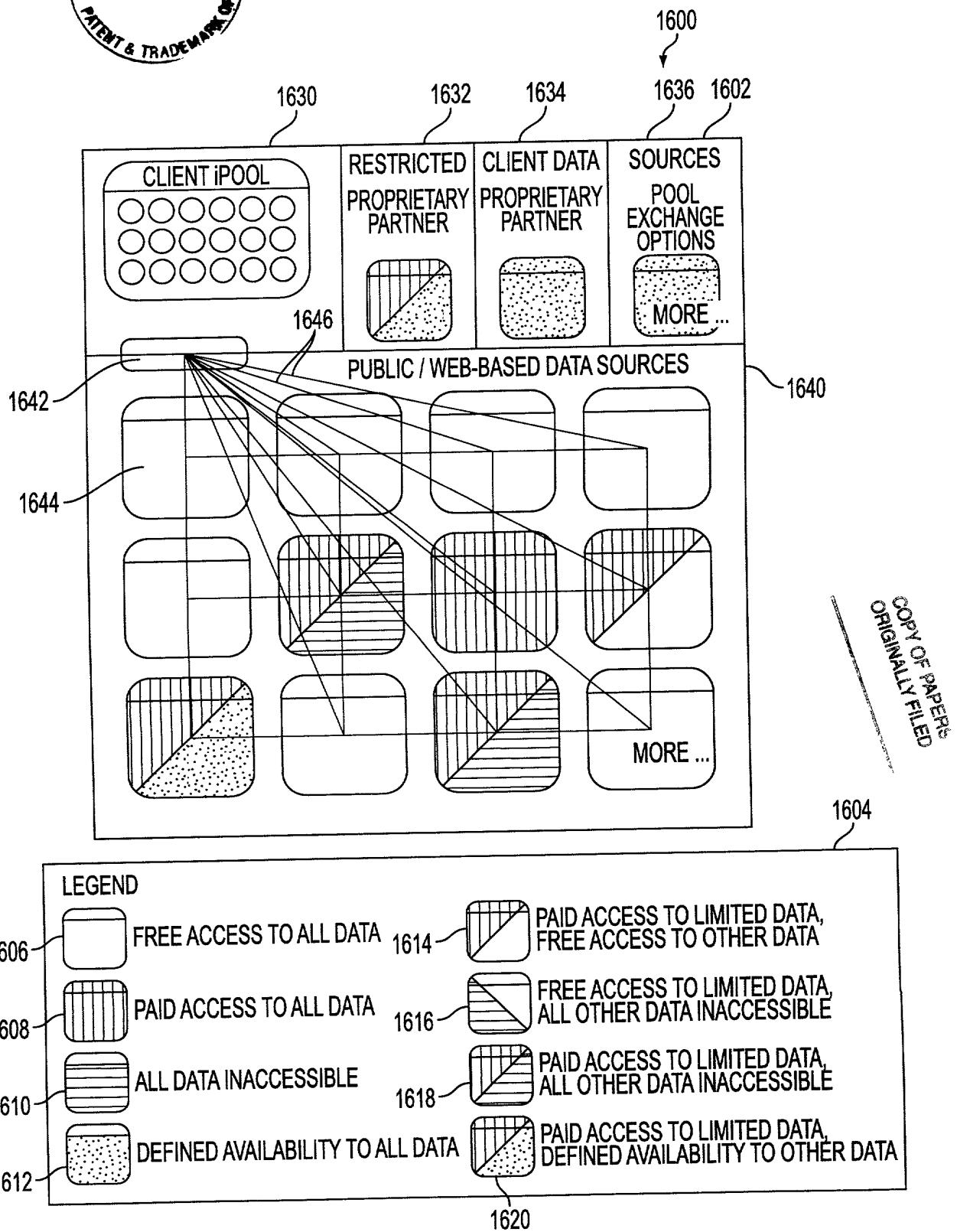


FIG. 16

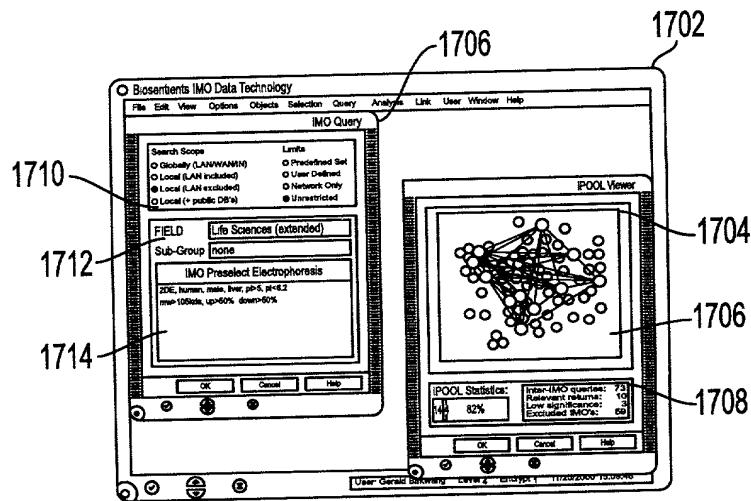


FIG. 17A

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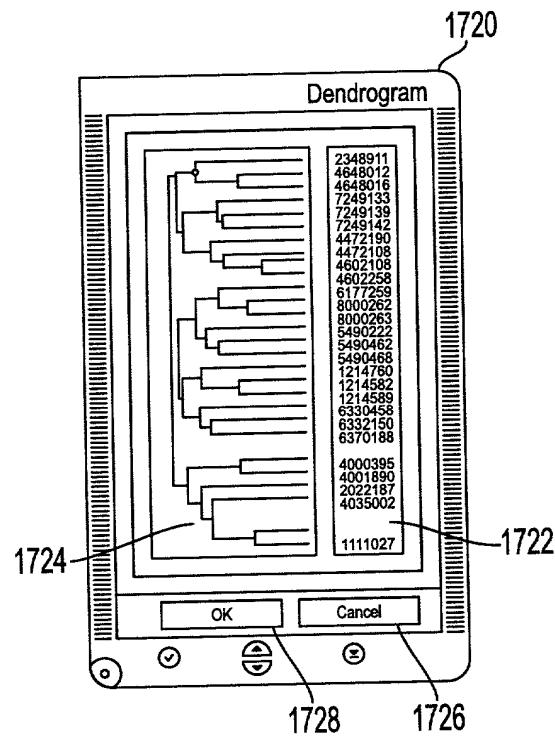


FIG. 17B

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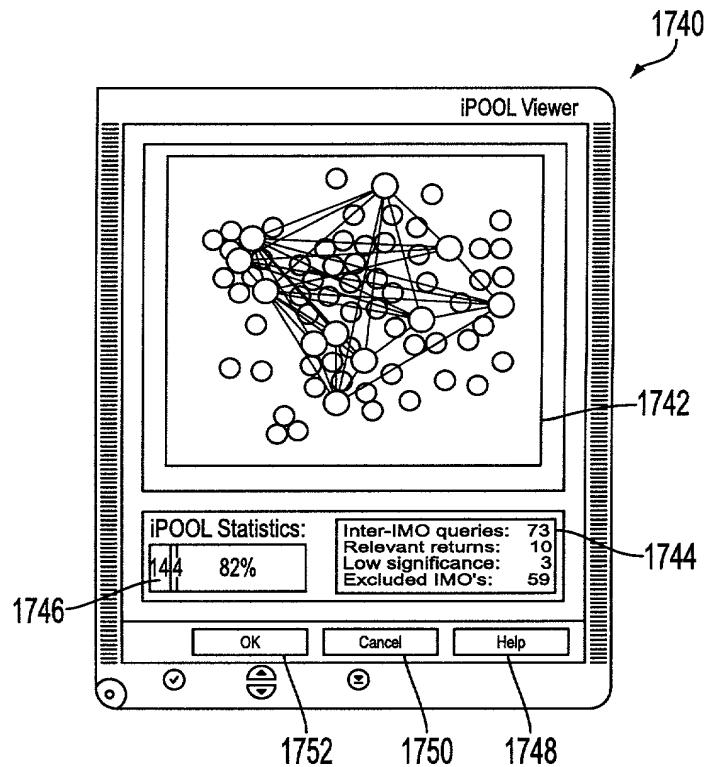


FIG. 17C

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